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*Publication date:*  
2015

*Document Version*  
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

*Citation (APA):*  
Birkegård, A. C., Hisham Beshara Halasa, T., & Toft, N. (2015). *Planning a cross-sectional study of antimicrobial resistance genes in Danish pig farms*. Poster session presented at 4th ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens 2015, Washington, United States.

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# Planning a cross-sectional study of antimicrobial resistance genes in Danish pig farms

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## OBJECTIVES

Plan a cross-sectional study of the antimicrobial resistance genes in conventional Danish pigs farms. The sample should meet the following criteria:

- Include 500-1000 farms
- Farms randomly selected
- Allow studying the impact of trade partners
- Allow studying potential spatial clustering
- The sampling period should be short

## DATA

Data was provided by the Food and Agriculture council giving the number of farms each slaughterhouse received pigs from during weeks 6-10 2014 and weeks 46-50 2014

Data was supplemented with Cartesian coordinates of the farms.

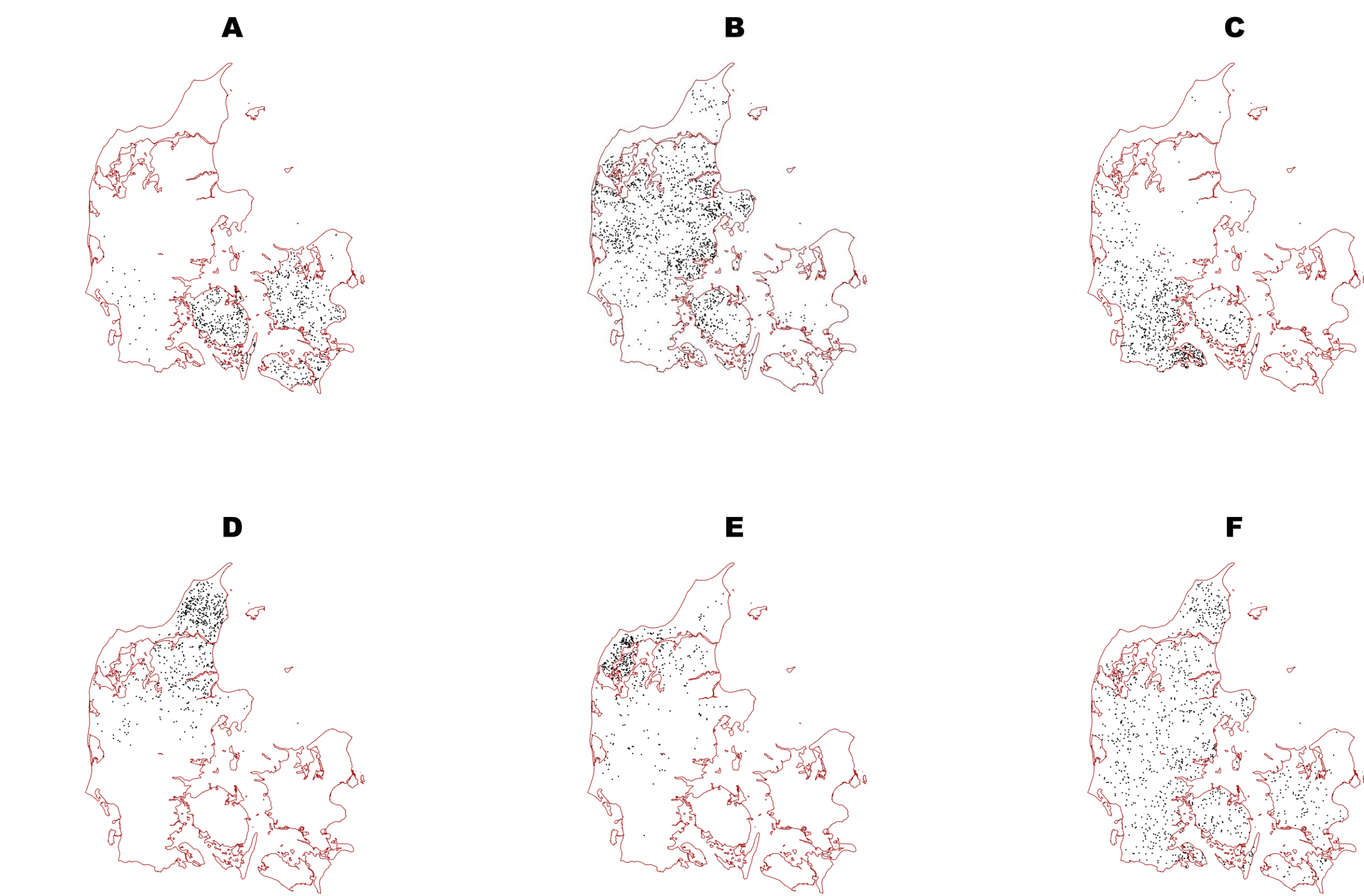


Figure 1 Location of the farms that send pig to slaughter at each slaughterhouse (A-F).

## RESULTS

Sampling was performed in 6 slaughterhouses. The number of farms sampled at each slaughterhouse is shown in table 1. The farms were sampled at random and for each slaughterhouse, 6-50 farms were sampled per day per slaughterhouse.

Slaughterhouse	A	B	C	D	E	Total finisher	F
Number of farms planned sampling	140	300	160	120	80	800	200
Number of unique farms sampled	126	256	129	107	76	687	61*

Table 1 Number of the farms to be sampled at each slaughterhouse (A-F) and the resulting number of unique farms sampled at each slaughterhouse. \*: still sampling

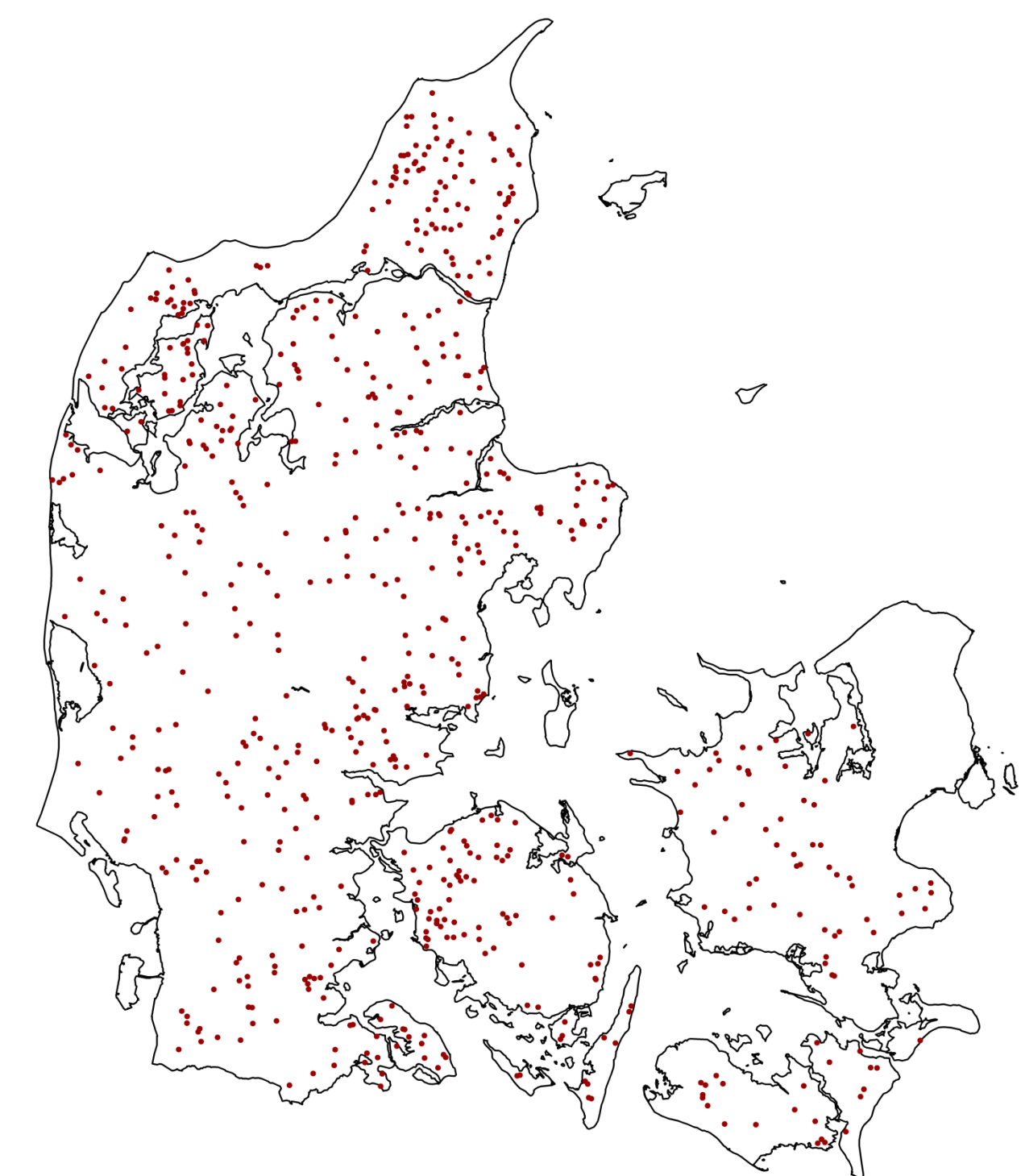


Figure 2 Location of the farms in the final sample

